

CRACKLIN' STATIC



SIERRA NEVADA Amateur Radio Society

Serving the Amateur Radio Community since April 16, 1968

<http://www.snars.org>

RENO, NEVADA

NOVEMBER 2016

PRESIDENT'S VOICE

I would like to thank everyone who attended Pacificon this year in San Ramon. The event was well attended and a few new vendors. Many visited the SNARS Booth asking various of questions about SNARS and the systems we have. A big thank you to the MDARC for hosting us and allowing SNARS to have a table at the event.

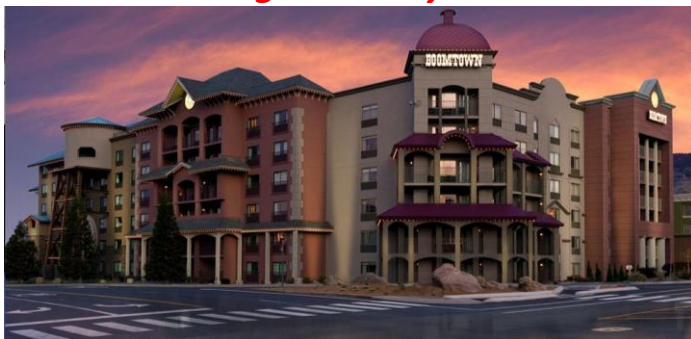
If you did not attend the October breakfast meeting we announced there will be no election due to only having three nominated candidates to fill the three positions up for election this year. We welcome back, Rob Dunbar NB6C, John Byerly N7ROJ, and our new board member Wes Vick KG7QXE. Thank you to the three members setting up and serving. The new officers will take their offices Starting January 1st, 2017.

A big thank you goes out to Steve Kometz, N7KP for his continual work and support he provides to the club. He has tirelessly built, rebuilt many items for the Mt Rose new install and has completed the new repeater stack for Peavine. He has rebuilt/fixed several duplexers saving the club thousands of dollars not having to purchase new ones. He has also retuned the newly acquired Master III Repeaters. Due to Steve's hard work we were able to replace the 147.150 repeater on Mt Rose with a Master III Repeater, one link radio with a Master III and was able to install a new rack at the site. Again a big thank you to Steve along with John Byerly N7ROJ, Jim Shepherd W6US, Pat Sheehan W7DED for the new install! We will plan to install the new Peavine 147.21 repeater in the near future. The Master III repeaters provide the club with newer repeater systems which will last us many more years!

Hope to see everyone this weekend at the SNARS Monthly breakfast. We will have the weather service presenting on the current storms, future forecasts and some basic information about SKYWARN Spotter program.

73, Tony W7XM

SNARS meeting Saturday November 5



7:30 AM Boomtown Casino Hotel, I-80 exit 4, Verdi NV, in the Banquet/Conference Center.

This month: Skywarn/Winter Weather Refresher /Update by Chris Smallcomb, Reno Forecast Office, National Weather Service.



SNARS, P.O. Box 7727, Reno, NV 89510

Membership: \$40 Individual, \$50 Family

OFFICERS 2015

President.....Tony Marcin.....W7XM
Vice President..... Jim Shepherd.....W6US
Treasurer.....Bill Jones.....AE7OX
Secretary.....Rob Dunbar.....NB6C
Director.....Steve Johnson.....KS6A
Director.....John Byerly.....N7ROJ
Director.....Barry Bettman.....K6ST

STAFF 2016

By Laws Review Committee.....vacant
Club Public Information Officer.....vacant
Control Operators Manager.....W7DED
Cracklin' Static Editor.....WB2AWQ
Meeting Greeters.....AE7OX
History Archivist.....KF7KTC
Station Licensee for KR7ENO.....WB2AWQ
Control Operators FOR KR7ENO.....WB2AWQ
Station Licensee for W7TA.....KE7VSR
Tech Committee Chair.....N7ROJ
Chief VE Examiner.....NN7K
Membership Chairman.....N2MOO
Program Chairman.....vacant
Web MasterW7XM
Facebook Page Administrator.....W7XM
Events (ARES) Coordinator.....WA6MTY
Education Team Chair.....W7XM
Reno Ham Swap.....NB6C
Field Day Co-chair.....KS6A
Field Day Co-chair.....W6US
Audit.....vacant
Noon Net.....KG7QXE

CRACKLIN' STATIC PUBLICATION

E-mail..... holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size or line spacing may be required in order to publish this Newsletter.

Deadline for input to the newsletter is 1500 hours on the Sunday prior to the 1st Saturday of each month.

Cracklin' Static is e-published in Adobe PDF Format. It may be enjoyed at the SNARS web site.

Amateur Radio License Testing 2016

SNARS, Third Saturday of February, April, June, August, October and December. Testing will be at the REOC located at 5195

Spectrum Blvd., be there at 9 AM sharp! Bill Nichols... NN7K

SIERA CLUB: Silver State Charter High School, 788 Fairview Dr, Carson City..... 3rd Saturday of January, March, May, July, September, and November

.....Dale Anderson, kv7s@charter.net

Elko Area: Third Saturday of January, April, July, October.

11:00AM, Northeast Nevada Regional Hospital, 2001 Errecart

Boulevard, Elko, NV w7gk_1@yahoo.com

SNARS Repeater System Frequencies

I-80-Mt Rose Linked System (W7TA)

Reno, Sparks, Carson City (Ophir Peak) 443.075 + 123.0 Normal Operation
Lovelock, Black Rock Desert (Toulon Peak) 146.925 - 123.0 Normal Operation
Winnemucca 146.670 - 123.0 Normal Operation
Reno, Sparks (Virginia Peak) 147.030 + 123.0 Normal Operation
Carson City, Tahoe, Truckee (Mt Rose Knob) 147.150 + 123.0 Normal Op
Reno, Sparks, North Valleys (Peavine Peak) 147.210 + 100.0 Normal Operation
Yerington, Wellington (Lobdelle Peak) 444.875 + 100.0 Normal Operation

IRLP/EchoLink System (W7TA)

Reno, Sparks (GSR) 147.300 + 123.0 Connected to/Status:

Standalone Systems, Ragchew Repeaters (W7TA)

Reno, Sparks 52.580 - 114.8 Normal Operation
Reno, Sparks, Carson City, Dayton (Ophir Peak) 147.390 + 100.0 Normal Op
Reno, Sparks 927.1125 - 114.8 Normal Operation
Reno, Sparks, Carson City (Ophir Peak) 146.610 - 123.0 Not Linked, off air

Digital/APRS Systems (W7TA)

Reno, Sparks, Carson City (Ophir Peak) 145.050 - RNO Normal Operation
Carson City, Tahoe, Truckee (Mt Rose Knob) 145.050 - ROSE Normal Op
Lovelock, Black Rock Desert (Lobdelle peak) 144.390 - TOULON Normal Op

Portable Repeaters (KR7ENO)

Portable System 147.000 - 123.0 Special events only

DMR Digital Mobile Radio

Reno-Sparks 444.925 + CC1 DMR System
Reno, Carson, Dayton 444.825 + CC1
Lake Tahoe, Truckee 443.925 + CC1

C4FM Digital Repeater – YAESU OFF THE AIR

D-Star (N7NDS) NARRI

Reno-Sparks-Carson (Mt Davidson) 444.625 + (Module B)
Reno-Sparks-Carson (Mt Davidson) 145.175 - (Module C)

INTRODUCTION TO CONTESTING

(The first in a series of "Introduction to HF" workshops, sponsored by SNARS.)

During the 2016 CQ WW DX Contest, The Comstock Memorial Station (W7RN) sponsored "Introduction to Contesting" to members of the Sierra Nevada Amateur Radio Club (SNARS). In all, there were 14 participants. The average tenure as a ham of the visitors was one year. Each was given a chance to make at least one contest contact. The enthusiasm level was over the top and the session lasted more than 9 hours, including extensive introduction to HF antennas and how they work. This is the first in a series of Introduction to HF workshops sponsored by SNARS.

The session was conducted by Barry K6ST and Tom K5RC, at the W7RN super station.

Participants were W1RK, N7SAX, KI7FNR, W7CDN, K7HMR, AG7BY, K7ASE, KA7EKU, AE7JW, KG7PG, KF7EGU, KI7GVU



Some (!!!) of the antennas at W7RN (l to r) 125' Monopole with 2el 40 and 6/6/6/6 on 10. 35' Tower with 7el 6m and 12-17 yagi. 175' Monopole with 3el 80 and 6/6/6/6 on 15. 140' Rotating tower with 4/4/4 on 20 and 6el 15 at 150'



Welcome to the Comstock Memorial Station - W7RN



The W7RN station has many radios and pieces of HF equipment. Here's one operating spot with Elecraft K3S and K3 transceivers with P3 panadapters, Acom 2000 amplifiers, 4 computer monitors and much more gear.



K6ST conducting a primer on Contesting at W7RN



Tom K5RC elmering Jim K7ASE on 10 meters dx band opening.



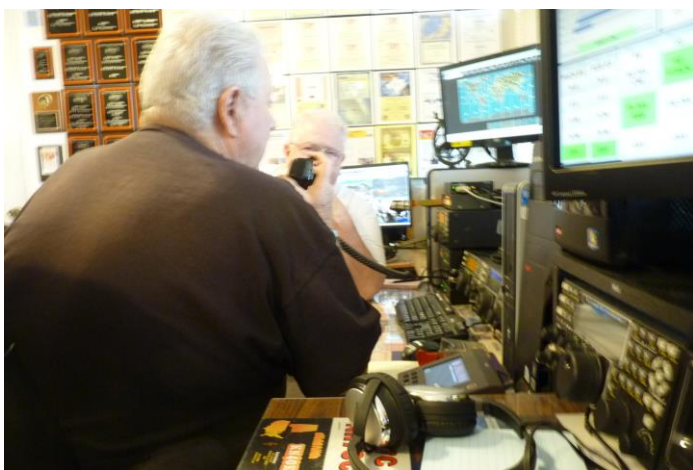
SNARS contestants on tour of the W7RN Comstock Memorial Station watch as the whole tower with all beam antennas rotate toward the DX signals.



SNARS members having a discussion about HF Propagation.



The beauty of contesting is winning many plaques over the years. Congratulations Tom and all W7RN operators!



Dale W7CDN working DX in the contest.



Elmering is a helpful way to become an effective contestor. Tom K5RC elmering Dave KF7EGU

Thank you Tom K5RC, our host on Saturday October 29th, 2016 for the SNARS HF Training - DX/Contesting Class - CQ WORLD WIDE DX CONTEST

73, Barry K6ST k6st@arrl.net and Tom K5RC Tom@K5RC.com

Editor's Note: More "Introduction to HF" Workshops will be advertised in upcoming editions of the SNARS Mini-Static!

MIKE'S MISSIVES CHAPTER NINETEEN

Part 97 -- Prohibited transmissions

This is part two of 97.113 – Prohibited communications published in last month's newsletter.

(b) An amateur station shall not engage in any form of broadcasting, nor may an amateur station transmit one-way communications except as specifically provided in these rules; nor shall an amateur station engage in any activity related to program production or news gathering for broadcast purposed, except that communications directly related to the immediate safety of human life or the protection of property may be provided by amateur stations to broadcasters for dissemination to the public where no other means of communications is reasonably available before or at the time of the event.

(c) A control operator may accept compensation as an incident of a teaching position during periods of time when an amateur station is used by that teacher as a part of classroom instruction at an educational institution.

(d) The control operator of a club station may accept compensation for the periods of time when the station is transmitting telegraphy practice or information bulletins, provided the station transmits such telegraphy practice and bulletins for at least 40 hours per week; schedules operations on at least six amateur service MF and HF bands using reasonable measures to maximize coverage; where the schedule of normal operating times and frequencies is published at least 30 days in advance of the actual transmissions; and where the control operator does not accept any direct or indirect compensation for any other service as a control operator.

(e) No station shall retransmit programs or signals emanating from any type of radio station other than an amateur station, except propagation and weather forecast information intended for use by the general public and originated from United States Government stations, and communications, including incidental music, originating on United States Government frequencies between a manned spacecraft and its associated Earth stations. Prior approval for manned spacecraft communications retransmissions must be obtained from the National Aeronautics and Space Administration. Such retransmissions must be for the exclusive use of amateur radio operators. Propagation, weather forecasts, and manned spacecraft communications retransmissions may not be conducted on a regular basis, but only occasionally, as an incident of normal amateur radio communications.

(f) No amateur station, except an auxiliary, repeater or space station, may automatically retransmit the radio signals of other amateur stations.

UPCOMING Monthly Meeting Topics - 2016

November Skywarn/Winter Weather Refresher /Update
Chris Smallcomb, Reno Forecast Office, National Weather Service.

December Christmas Breakfast, Elections, Radio Raffle

Monthly Breakfast Meetings Sponsored by



BOOMTOWN[®]
CASINO ★ HOTEL
RENO, NV

THE SNARS NOON NET

The Noon Net is on 147.030 + and 147.150+, PL 123.0, and 147.210 + and 444.875+, PL 100.0 . The net is held weekly at 1200, Sunday afternoon. This is a Q&A and information net for newly licensed hams and all hams wishing to ask question about different aspects of Ham Radio. It will give new hams in particular a venue for getting on the air in a controlled net moderated by a ham with experience. The net is open to all hams. Questions will be answered and discussed by the more experienced hams on the Net.

Weekly nets on the SNARS repeater systems

SNARS Noon net (daily, 12:00 PM, see below)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

The Morning Net (Monday – Friday at 10:00 AM)

147.300 + 123.0

Bishops Storehouse Net (Monday nights at 9:15 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

North Western Nevada ARES Net (Tuesday nights at 7:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State SATERN Net (Tuesday nights at 8:00 PM)

147.300 + 123.0

State SKYWARN Net (Wednesday nights at 7:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

Northern Nevada Preppers Group Net (Wednesday nights at 8:00 PM)

147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State ARES Net (Thursday nights at 7:00 PM)

147.300 + 123.0

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SKYWARN[®] Recognition Day



SKYWARN[®] Recognition Day was developed in 1999 by the NWS and ARRL. It celebrates the contributions that volunteer Skywarn[®] radio operators make to our nation's severe weather warning system. During the day Skywarn[®] operators may visit NWS offices and contact other radio operators across the country.

SKYWARN

Fri. Dec 2 - 4:00 PM thru Sat. Dec 3 - 4:00 PM 2016

Operate on HF Radio!

This is your opportunity to help contact as many NWS and Amateur Radio stations on HF Radio. If you have not operated or have limited access this is your chance to work HF stations! We will teach you everything to be successful while operating HF Radio.

Earn a Certificate by Operating!

All operators will earn a special certificate displaying number of stations you made contact with. A great item to put on your wall to show your accomplishment of operating during Skywarn Recognition Day! Certificates are provided electronically after the event.

Operate on VoIP Radio Systems!

We will also have Voice Over IP systems available including IRLP, EchoLink and DStar and Digital Mobile Radio (DMR) to make contacts with other NWS and Amateur Radio Stations.

Weather Briefing at SNARS Monthly Breakfast, Nov 3, 2016

Join us at the SNARS monthly breakfast at Boomtown Casino Hotel for an overview and briefing of weather topics along with a quick Skywarn/Spotter training. The SNARS Breakfast begins at 7:30am with a buffet breakfast followed by a quick membership meeting and the presentation at 8:30am. All are welcome to attend.

Skywarn Recognition Special Net

We will be taking VHF/UHF Check-ins on **Friday Night** from **9:00 PM to 10:00 PM** on SNARS Linked System (147.210, 147.150, 147.030, 146.925, 146.670 and 444.875).

Skywarn Training - Nov 15, 2016

Join us at the Washoe Regional Emergency Operations, 5195 Spectrum Blvd, Reno for Skywarn/Spotter Training provided by the National Weather Service, Reno Forecast Office. We will begin at 6:00 pm on Nov 15th.

Sign Up to Today to operate during SKYWARN Recognition 2016!

We are looking for volunteers to operate any of the stations in 2 hour shifts. Refreshments will be provided. Operators will receive a special SKYWARN Recognition 2016 keepsake.

<http://snars.org/skywarn>

The National Weather Forecast Office Reno Forecast Office is located at
2350 Raggio Parkway, Reno, NV 89512

Sponsored by the Sierra Nevada Amateur Radio Society, Inc and Washoe Amateur Radio Emergency Services

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NAME THAT RIG



(Answer on page 8)

SNARS CALENDAR

SNARS monthly meeting (breakfast!)

Saturday, November 5th, 8:00 AM

Boomtown Casino Hotel, I-80 exit 4, Verdi NV

Technical Committee Meeting - SNARS

Wednesday, Nov 9th, 2016 6:00 PM - 7:00 PM PDT

**Washoe County Regional Emergency Operations Center,
5195 Spectrum Blvd Reno, Nevada 89512**

Board of Director's Meeting - SNARS

Wednesday, Nov 16th, 2016 6:00 PM - 7:00 PM

**Washoe County Regional Emergency Operations Center,
5195 Spectrum Blvd Reno, Nevada 89512**

HAM CRAM and VE test

Saturday, Nov 19th, 2016 8:00 AM SHARP!

**Washoe County Regional Emergency Operations Center,
5195 Spectrum Blvd Reno, Nevada 89512**

WELCOME NEW SNARS MEMBERS!

NEW MEMBERS FOR SEPTEMBER 2016

Tom	Deeble	KA6SIP
Agi	Melton	KI7ADB
John	Symons	KI7HKA

304 total active members

FUN STUFF FOR NOVEMBER

Looking for some excitement on the bands during the fall? There's something for everyone on the air!

**5 Nov 2100 to 7 Nov 0300 1.8-28 ARRL Sweepstakes
Contest, CW www.arrl.org/sweepstakes**

**12 Nov 0000 to 13 Nov 2359 3.5-28 WAE DX Contest,
RTTY www.darc.de**

**12 Nov 0001 to 13 Nov 2359 28 10-10 International Fall
Contest, Digital www.ten-ten.org**

**19 Nov 0000 to 20 Nov 2359 50-1296 ARRL EME Contest
CW Ph Dig www.arrl.org/eme-contest-1**

19 Nov 2100 to 21 Nov 0300 1.8-28 ARRL Sweepstakes Contest, SSB www.arrl.org/sweepstakes

26 Nov 0000 to 27 Nov 2359 1.8-28 CQ Worldwide DX Contest, CW www.cqww.com/rules.htm

For a full list of contests, see:

[http://www.arrl.org/files/file/Contest%20Corral/2016/November 2016 CORRAL.pdf](http://www.arrl.org/files/file/Contest%20Corral/2016/November%202016%20CORRAL.pdf)

If you're not into contests, there's always DX to chase!
Some of the many better DX operations coming up in November:

Nov02 to Nov08 Palau T88AB
Nov04 to Nov14 Cambodia XU7MDC
Nov06 to Nov16 Micronesia V63AJ
Nov06 to Nov16 Senegal 6V1IS
Nov07 to Dec02 Tanzania 5H3MB
Nov09 to Dec06 Mauritius 3B8
Nov10 to Nov16 West Kiribati T30
Nov10 to Nov22 Central African Rep TL8AO
Nov15 to Nov17 Palau T88QR
Nov16 to Nov30 Kenya 5Z4
Nov16 to Dec05 Cambodia XU7AEZ
Nov20 to Dec03 Maldives 8Q7SP
Nov20 to Nov23 Nepal 9N7NZ
Nov20 to Dec25 DR Congo 9Q0HQ/3
Nov21 to Dec01 Ascension I ZD8V
Nov24 to Dec02 Easter I CE0Y
Nov25 to Nov30 Micronesia V63DX

Visit <http://www.ng3k.com/Misc/adxo.html> for current info and full lists!

Miscellaneous photos.....from our Prez Tony W7XM



W7XM does a DMR presentation at Pacificon



SNARS booth at Pacificon



The new 147.15 repeater on Mt Rose

NAME THAT RIG (from pg 7)

People familiar with the Mosley name usually think of antennas. Mosley has been building Ham antennas for well over 60 years, from simple trap vertical wires to high performance beams. But in 1961, Mosley released its first (and only) electronic product, the **Mosley CM-1** receiver. Mosley had big hopes for the CM-1, but it just never really took off. It was basically an 80 meter receiver with crystal controlled converters for the rest of the Amateur bands through 10 meters. While it was a decent performer, Hams never really latched on to it, and it was Mosley's only attempt at electronic products.

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ARES NEWS

Just a reminder, November 19th is my last One Day Ham Cram (test review) for the year. If you know of anyone studying for the technician or any technician that wants to upgrade to general, we will be reviewing the test questions, focusing only on the correct answers. By noon you should be ready to take the test. We start at 0800 at 5195 Spectrum Blvd. Reno.

SKYWARN RECOGNITION DAY

SKYWARN volunteers typically set up radio operations at their local NWS Forecast Office and hams around the world are encouraged to try and contact as many of these stations as possible. SRD is traditionally held on the first Saturday in December. This year's event will run from 00:00 to 24:00 **UTC** on December 2nd and 3rd.

1. Modes of operation: HF- VHF- 2 meters and simplex -IRLP -EchoLink-DMR-D-Star
2. Radios and equipment will be provided. Only authorized radios will be eligible to operate
3. Antennas to be erected November 25th TBA
4. Operators will be asked to commit to four hours shifts. Sign up sheets will be on the Internet
5. SNARS will graciously donate refreshments for the radio operators.

Bob WA6MTY, Washoe County Emergency Coordinator wa6mty@gbis.com

Bob Miller WA6MTY

Amateur Radio Emergency Service Emergency Coordinator

775 843-5952 www.wcares.us

FEATURED PRODUCT

**This package is an unbeatable deal!
Here are some features:**

- **Vertical antenna (80-2 meters)**
- **150 watt PEP capacity**
- **25' counterpoise w/ winder**
- **Jaw-mount bracket (for horizontal or vertical mounting)**
- **PL-259 connector**

SNARS PRICE: \$89.95

REGULAR PRICE: ~~\$99.95~~

ABOUT US...

We carry a variety of new products such as antennas, mag mounts, switches, coax cable, connectors, and more.

We also have a wide selection of both vintage and modern ham gear, which you are more than welcome to peruse at your leisure. From Collins to Elecraft, you never know what we'll have on our racks!

If you're looking for anything particular, give us a call and we'll add you to our "wanted" list. The next time we find that specific piece, we'll give you a call *before* it's listed for sale anywhere else!

Ham&HiFi

**155 Glendale Ave
Suite 12
Sparks, NV 89431
775-386-2506
www.hamandhifi.com**

WE BUY EQUIPMENT

We are always buying used equipment whether it's ham gear, high fidelity audio, tubes, or test equipment. Whether it's vintage tube equipment or the latest product on the market, working or not, near or far, we would love to hear from you. Give us a call for more information!



Board of Directors Meeting

October 19, 2016, 2016 - 6:00 PM

Washoe County Regional Emergency Operations Center
Board Room
5195 Spectrum Blvd, Reno

DRAFT MINUTES - To Be Approved on November 16, 2016

1. Call to order at 6:00 PM

Anthony Marcin, W7XM	Yes	Barry Bettman, K6ST	Yes	Rob Dunbar, NB6C	Yes
Bill Jones, AE7OX	No	John Byerly, N7ROJ	Yes	Steve Johnson, KS6A	Yes
Jim Shepherd, W6US	No				

Visitors
Wes KG7QXE

2. Approval of Minutes

- A. NB6C moved to approve the minutes from the September 21st Board of Directors meeting. The motion was seconded by N7ROJ and the motion passed.
- B. NB6C moved to approve the agenda as presented. KS6A seconded the motion and the motion passed.

3. Reports

A. President's Report -

- 1. Attended Pacificon, SNARS had a booth with some interest about the upcoming Hamfest.

B. Secretary Report

- a. Status Report – No election this year since nominations equaled vacant seats. N7ROJ, KG7QXE and NB6C will be serving as directors for 2017 through 2018.
- b. Change of Organization Type from Chapter 81 to Chapter 82 – NB6C will look over documents prepared by W7XM.

C. Membership Coordinator

- a. Membership Status Report – There are currently 312 Members and membership will fluctuate as members renew.
- b. Discussion regarding creating life membership.

D. Treasurer

- a. Balances as of September 21: Checking: \$11,457 Savings: \$3,243 PayPal: \$1,505 Trust Fund: \$10,100 a total of \$26,305. Report was emailed out by AE7OX.

E. Technical Committee - Report

- a. IM Panel has been ordered for Peavine for the new 440 machine.
- b. Mt Rose just got a large upgrade. Equipment was installed before snowstorm. Mt Rose has 3 master 3 repeaters installed.
- c. Investigating selling remote bases to Jim Newell.
- d. Used rack was donated by Washoe County.
- e. W7XM is going to install a new 2m antenna at Davidson.
- f. Peavine package New 147.210 repeater controller and duplexer.

F. Control Operators / Trustee - Report

- a. No Report

G. Events

- a. Ham Swap – Club made approx. \$1400 refer to ministatic
- b. Reno-Tahoe Hamfest – Moving forward nothing to report.

H. Education Team

- a. Tech class to start November 1.

I. Noon Net

- a. Status – Net running well but still looking for control operators. Maybe a couple people interested in control operators

J. HF Team

- a. Status – wa7irw has offered to do basic kit building and satellites. Barry has offered to teach an intro to HF. KS6A is looking to book a room at Boomtown to hold the classes in.

4. New Business

- A. Holiday Party – Will be breakfast meeting with maybe some extra food.

5. Next Meeting

- A. November 16, 2016 - Wednesday at 6:00PM - Washoe Regional Emergency Operations Center

6. Public Comments

- A. Open for Comments - No Public Comments

7. Adjournment at KS6A 2nd by K6ST PM